

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 01-092279

(43)Date of publication of application : 11.04.1989

(51)Int.Cl.

C09D 5/08

(21)Application number : 62-218682

(71)Applicant : NIPPON PAINT CO LTD

(22)Date of filing : 31.08.1987

(72)Inventor : OKAI TOSHIHIRO
OKUMURA YOSHIAKI
ODA MITSUYUKI
YAMAMOTO TAKASHI
FUKUDA HIDEO
KUWAJIMA TERUAKI

(54) CORROSION-RESISTANT COATING

(57)Abstract:

PURPOSE: To obtain the titled coating virtually free from pollution, capable of suppressing corrosion cracking, hydrogen brittleness, pittings, coating film blisters, etc., for use in metallic materials, by incorporating a film-forming resin with a phosphoric acid ion source and vanadic acid ion source.

CONSTITUTION: A mixture made by incorporating (A) a film-forming resin with 0.1W50pts.wt., based on 100pts.wt. of the whole solid content of the final coating, of (B) a phosphorus compound (e.g., magnesium phosphate) and (C) a vanadium compound (e.g., pentavalent vanadium compound) in the molar ratio $P_2O_5/V_2O_5=0.3W100$ and, if needed, (D) a network modifying ion source and/or glassy substance is calcined followed by grinding, thus obtaining the objective coating having both oxidizer and deposition functions under corrosive conditions due to water and oxygen to give rustproof performance.